

Claims

I claim:

1. A dispense closure for a fluid receptacle, the closure comprising:

a cap configured to engage the fluid receptacle threadably, the cap including at

5 least one aperture therethrough;

a blister pack including at least one deformable blister thereon, the blister containing an additive therein, the blister being insertable through the aperture in the cap upon coupling the blister pack and cap; and

10 a retainer ring coupled to the cap, the retainer ring supporting the blister pack in the cap and sealing the cap and fluid receptacle together.

2. The closure of Claim 1, further comprising a valve coupled to the cap, the valve being configured between an open position for dispensing fluid from the receptacle and a closed position.

3. The closure of Claim 1, wherein the retainer ring is coupled to the cap via a
15 snap-fit.

4. The closure of Claim 1, wherein the retainer ring is heat sealed to the cap.

5. The closure of Claim 1, further comprising a collar coupled to the valve, wherein the collar is selectively manipulatable to open and close the valve.

6. The closure of Claim 1, wherein the blister pack includes:

20 a substantially-annular disk made from a plastic material having a raised portion defined on one side of the disk and a cavity on an opposite side of the disk corresponding with the raised portion, the raised portion defining the blister; and

a rupturable seal coupled to the side of the disk having the cavity, by which the cavity is covered.

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7. The closure of Claim 6, wherein the additive is contained within the cavity,
and wherein the additive is secured in the cavity by the rupturable seal.

8. The closure of Claim 6, wherein the disk is made from a plastic material,
wherein the rupturable seal is made from a metal foil material having a coated layer of plastic
5 material, and wherein the rupturable seal is heat sealed to the disk.

9. The closure of Claim 1, wherein the retainer ring includes at least one aperture
therethrough, the aperture of the retainer ring being alignable with the aperture of the cap.

10. The closure of Claim 1, wherein the retainer ring includes a bore seal
extending from the ring and around the ring, and wherein the bore seal is positioned adjacent
10 to threads formed in the cap upon coupling with the cap.

11. The closure of Claim 10, wherein the fluid receptacle is compressed between
the bore seal and the cap upon engaging the cap and fluid receptacle.

12. The closure of Claim 1, further comprising a membrane configured to cover
the blister, the membrane being positioned between the cap and the blister pack.

15 13. The closure of Claim 12, wherein the membrane is made from a plastic
material.

14. A dispense closure for a fluid receptacle, the closure comprising:
a cap configured to engage the fluid receptacle threadably, the cap including at
least one aperture therethrough;

20 a blister pack including a deformable blister thereon, the blister containing an
additive therein and the blister being insertable through the aperture in the cap upon coupling
the blister pack and the cap; and

a bore seal extending from the cap and around the cap, the bore seal being
configured to seal together the cap and the fluid receptacle.

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15. The closure of Claim 14, further comprising a valve coupled to the cap, the valve being configured between an open position for dispensing fluid from the receptacle and a closed position.

16. The closure of Claim 14, further comprising a collar coupled to the valve,
5 wherein the collar is selectively manipulatable to open and close the valve.

17. The closure of Claim 14, wherein the blister pack includes:

a substantially-annular disk made from a plastic material having a raised portion defined on one side of the disk and a cavity on an opposite side of the disk corresponding with the raised portion, the raised portion defining the blister; and

10 a rupturable seal coupled to the side of the disk having the cavity, the rupturable seal covering the cavity.

18. The closure of Claim 17, wherein the disk is made from a plastic material, wherein the rupturable seal is made from a metal foil material having a coated layer of plastic material, and wherein the rupturable seal is heat sealed to the disk.

15 19. The closure of Claim 18, wherein the cap is made from a plastic material, and wherein the cap and disk are joined via a heat sealing process.

20. The closure of Claim 17, wherein the additive is contained within the cavity, and wherein the additive is secured in the cavity by the rupturable seal.

21. The closure of Claim 14, wherein the bore seal is positioned adjacent to
20 threads formed in the cap, and wherein the fluid receptacle is compressed between the bore seal and the cap upon engaging the cap and fluid receptacle.